APPENDIX 3.D-

The Wide-Angle View from a First Responder *Bob Athanas, President, SAFE-IR, Inc.*

Webster's dictionary defines *Emergency* as "an unknown combination of circumstances which calls for immediate action." In today's society, that immediate action most often comes from first responders and, specifically, firefighters. Firefighters, like the military, utilize many tools or weapons. Their thorough understanding of these tools, their functions and limitations is essential for the proper application of the tool and often the safety and survival of the user. Thermal imaging cameras are rapidly becoming one the most valuable tools available for firefighters. Bob will briefly touch on the range of needs and applications of thermal imaging cameras for the fire service. He will discuss the unquestionable value of the more than 30 models of thermal imagers introduced to the fire service in the last 6 years and how their effectiveness is complicated and compromised by inconsistency. He will offer some examples of how thermal imaging cameras may be simplified through the establishment of standards for manufacture, display, and function. Then he will offer a common sense explanation of why these standards will positively impact the purchase, training and safe use of thermal imagers in the dynamic and stressful situations faced by firefighters.

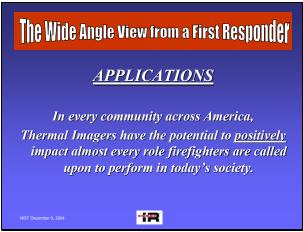
Biography:

Bob Athanas is a 28-year veteran of the fire service who began using a thermal imager in 1991 and started teaching thermal imaging to firefighters 1996. He is currently assigned to FDNY Special Operations and is President of SAFE-IR, INC., an internationally recognized fire service thermal imaging training and consulting organization. Bob is an instructor for the NYS First Line Supervisors Training Program, FDNY Chief Officers Command Course and Technical Rescue School, FDIC, Firehouse Expo, and many colleges, regional, municipal and state fire schools. He represents end users as a member of the NFPA Committee on Electronic Safety Equipment.

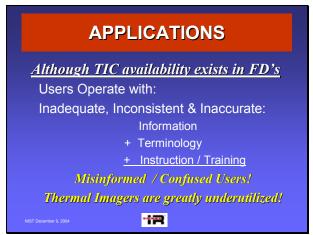






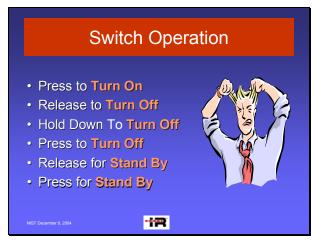


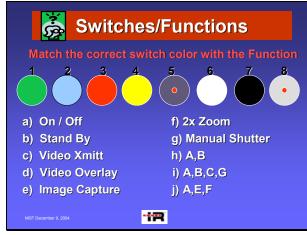




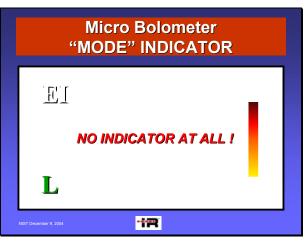






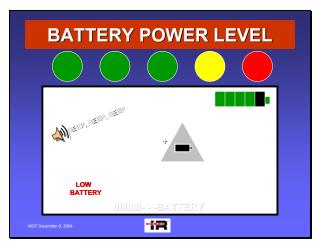






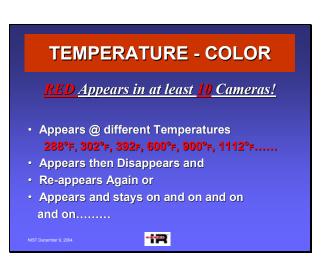








TEMPERATURE & COLOR Consistency 2 COLORS 3 COLORS FULL COLOR Transparent Colors Color vs. Temp HOT = Color Cold = Color BLACK, WHITE SHADES OF GRAY







TRAINING

With standards for Thermal Imaging
Cameras training may also be simplified
and standardized. <u>BASIC OPERATION!</u>

Then the user can concentrate on proper image interpretation and tactical application without focusing on function variables and durability!

NIST December 9, 2004



SUMMARY

STANDARDS will create:

Consistency

- + Reliability
- + Simplicity (Users)
- + Accountability
- + Responsibility (Mfrs.)

SAFETY for FIREFIGHTERS

NIST December 9, 2004

